AMSAT News Service Weekly Bulletins
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SB ALL @ AMSAT $ANS-182.01
URGENT HELP IS NEEDED IN LOCATING MICROSAT COMPONENTS

HR IS AMSAT NEWS SERVICE BULLETIN 182.01 FROM AMSAT HQ
SILVER SPRING, MD JULY 1,1989
TO ALL RADIO AMATEURS BT

Urgent Help Is Needed In Locating Microsat Components

AMSAT-NA President Doug Loughmiller (KO5I), on behalf of the Microsat construction team, is appealing to the amateur community for help in locating some vitally important components to be used in the construction of the four Microsat satellites now under development for a launch later this year.

The construction phase of the spacecraft sub-systems is drawing to a close in preparation for spacecraft integration now scheduled to commence in the next couple of weeks.

AMSAT has exhausted all known sources for these components. The Microsat construction team is operating under a very tight time table and if this project is to be completed on schedule, it is absolutely imperative that the needed components be located and delivered to AMSAT by the end of this week.

The components that are urgently needed include two surface mount integrated circuits and a transistor all for use in the flight computer. They are as follows:

QUANTITY	DEVICE
10	CD74AC00M
10	CD74AC04M
10	2N7024

If you can provide some assistance in locating these very important components, please contact AMSAT Assistant Vice President of Engineering, Bob McGwier (N4HY) at (609) 443-8963 or AMSAT President Doug Loughmiller (KO5I) at (214) 784-0194. Any help in this matter will be greatly appreciated.

/EX
SB ALL @ AMSAT $ANS-182.02
BOD NOMINATIONS

HR IS AMSAT NEWS SERVICE BULLETIN 182.02 FROM AMSAT HQ
SILVER SPRING, MD JULY 01, 1989
TO ALL RADIO AMATEURS BT

AMSAT-NA Board-of-Directors Nominations Period Extended to July 14, 1989

AMSAT-NA Headquarters wants to remind members that nominations for the office of Director are now in order. According to the AMSAT-NA Bylaws (see ASR #187), four out of the seven Board-of-Director (BOD) seats will be up for election this year. The seats on the "Board" which are up for election this year are currently filled by the following individuals:

1) Bill Tynan (W3XO)
2) Jan King (W3GEY)
3) Bob McGwier (N4HY)
4) Andy MacAllister (WA5ZIB)

Each Director will serve for a two year term. Any five AMSAT-NA members or any Member Society can nominate a member (who shall have agreed to serve if elected) for a seat on the Board. Nominees will be asked to provide minimal background and biographical data for publication in Amateur Satellite Report (ASR) and for inclusion with the ballot. Please send your nominating petitions to:

Secretary
Radio Amateur Satellite Corporation
c/o AMSAT-NA HQ
Suite #600
850 Sligo Avenue
Silver Spring, MD
20910

In accordance with the Bylaws, the deadline for receipt of nominating petitions by the Secretary has been extended from July 7 to July 14, 1989, rather than July 30 as erroneously stated in the ANS bulletin dated June 24. We regret the error.

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SB ALL @ AMSAT $ANS-182.03
W2PN BECOMES A SILENT KEY

HR AMSAT NEWS SERVICE BULLETIN 182.03 FROM AMSAT HQ
SILVER SPRING, MD JULY 01, 1989
TO ALL RADIO AMATEURS BT

Long Time OSCAR Enthusiast, Nat Schnoll (W2PN), Becomes A Silent Key

AMSAT-NA officials this week learned of the passing of a long-time AMSAT member and OSCAR enthusiast, Nat Schnoll (W2PN) of Upper Saddle River, NJ. Nat had been very active with all the OSCARS since the OSCAR 6 days. During that time, Nat made many substantial financial contributions to the Phase III Program. In his professional life, Nat was a successful engineer and industrialist. After retiring in the late 1960's and despite being in his 80's, he remained very active in amateur radio as a noted DXer and he was also an avid traveller, visiting all of the DXCC countries in which he had made contacts with. The only country in which he had visited but had never worked an amateur radio station there was Burma. That was the last country he need in order for him to have said that he "worked them all." Everyone who knew Nat regarded him as real gentleman. AMSAT and the Amateur Radio community will certainly miss him.

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SB ALL @ AMSAT $ANS-182.04
RS 12/13 LAUNCH DELAYED

HR AMSAT NEWS SERVICE BULLETIN 182.04 FROM AMSAT HQ
SILVER SPRING, MD JULY 01, 1989
TO ALL RADIO AMATEURS BT

Sources Indicate That The RS 12/13 Launch Will Be Delayed

As reported in the AMSAT News Service (ANS) Bulletins several weeks ago, the amateur satellite community had expected the imminent launch of RS 12/13. That report was based upon the best available information at the time. However, AMSAT-NA has learned from various reliable sources (including G3AAJ

and KC2CF) this week that the launch of RS 12/13 has been delayed.

Like its sister RS 10/11, RS 12/13 will fly piggy-back on a civilian navigational satellite. This series of navigational satellites also perform a secondary mission known as COSPAS/SARSAT: search-and-rescue. As part of their secondary mission, these satellites collect doppler-shift data, for example, from downed airplanes which have their Emergency Locator Transmitters (ELT) running. This data is then used to "geo-locate" their position. These were the same series of satellites which helped locate the SKI TREKKERS during their journey from the Soviet Union to the North Pole and Canada last year. It is felt that the launch of RS 12/13 will not happen until there is a failure of one of the operational on-orbit COSPAS/SARSATs; when that occurs, RS 12/13 will then be launched. At this point it difficult to say when such a failure will occur. As soon as AMSAT receives any further information about the launch of RS 12/13, it will be made available as soon as possible in ANS Bulletins.

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SB ALL @ AMSAT $ANS-182.05
SPACE SYMPOSIUM DATE CHANGED

HR AMSAT NEWS SERVICE BULLETIN 182.05 FROM AMSAT HQ
SILVER SPRING, MD JULY 01, 1989
TO ALL RADIO AMATEURS BT

AMSAT-NA Officials Move Space Symposium To Weekend Of November 3-5th

At the present time, the launch of the MICROSATs is scheduled for November 9, 1989. Since this falls within two days of the scheduled AMSAT-NA Space Symposium, AMSAT-NA officials have decided to change the date of this annual AMSAT event to the weekend of November 3rd, 4th, and 5th. Those who have attended the Space Symposium in years past know that it is usually held on the second weekend of November. However, since many of the key personnel for the MICROSAT Program will be delivering papers at the Space Symposium, it was felt that it would be impossible for them to also provide support for the MICROSATs which would have been launched only 48 hours before the start of the Symposium! Therefore, in recognizing this critical conflict between the launch and the Space Symposium, AMSAT officials have decided to move the Space Symposium ONE WEEK AHEAD to November 3-5th. Everything else will remain the same: the location will still be in Des Moines, IA, registration will be on Friday, seminars will held on Saturday, the Annual AMSAT-NA Banquet will be Saturday evening, and the Board of Directors meeting will be on Sunday. With the launch of the MICROSATs and UOSAT D & E, there will be many papers devoted to various aspects of these new OSCAR satellites. If you would like to obtain more information about the AMSAT-NA Space Symposium, please contact AMSAT-NA HQ at (301) 589-6062 or Ralph Wallio (W0RPK) at (515) 961-6406.

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SB ALL @ AMSAT $ANS-182.06
AMSAT OPERATIONS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 182.06 FROM AMSAT HQ
SILVER SPRING, MD JULY 01, 1989
TO ALL RADIO AMATEURS BT

N5BF Issues A New Schedule For The AMSAT Operations Net For AO-13

Courtney Duncan (N5BF), Manager of the AMSAT Operations Net, has issued the following new schedule for the next several months for the times and frequencies of the OPS Net. These nets on AO-13 are designed to discuss the many happenings in the world of Amateur Radio Satellites. Please note that N5BF has adopted a new policy on the scheduling of this Net. In previous months the OPS Net was normally held on weekends mostly for convenience. However, N5BF has designed this new schedule so that the Nets will occur in

the evenings from 00:00 to 03:00 UTC. Also, pointing angles was another consideration in choosing these OPS Net times. It is hoped that this new policy for scheduling the OPS net will allow more AO-13 users the opportunity to check-in to this interesting net. If you have any comments or suggestions to pass along to N5BF, you can leave them to COURTNEY DUNCAN on the AMSAT-NA BBS at (301) 447-3003.

AMSAT OPERATIONS NET SCHEDULE 1989

Day	Date	Time	Orbit	Frequency	Local evening, U.S.
Sun	9 Jul	0200	819	435.970	Saturday
Wed	19 Jul	0230	840	435.970	Tuesday
Sun	30 Jul	0130	863	435.970	Saturday
Thu	10 Aug	0100	886	435.970	Wednesday
-- orientation and schedule change --					
Tue	22 Aug	0230	911	145.950	Monday
Sat	02 Sep	0130	934	145.950	Friday
Tue	12 Sep	0200	955	145.950	Monday
Sat	23 Sep	0100	978	145.950	Friday
Wed	04 Oct	0015	1001	145.950	Tuesday
Fri	13 Oct	0200	1020	145.950	Thursday
Tue	24 Oct	0100	1043	145.950	Monday
Sat	04 Nov	0000	1066	145.950	Friday

This schedule will be changed if the satellite operating schedule or other parameters so warrant.

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SB ALL @ AMSAT $ANS-182.07
AMSAT SHORT BURSTS

HR AMSAT NEWS SERVICE BULLETIN 182.07 FROM AMSAT HQ
SILVER SPRING, MD JULY 01, 1989
TO ALL RADIO AMATEURS BT

AMSAT Short Bursts

The following is the operating schedule for FO-12 for the first part of July:

DATE	MODE	OPERATING PERIOD
07/01/89	JD	15:43 UTC until 23:55 UTC
07/04/89	JD	21:13 UTC until 14:08 UTC on 07/05/89
07/07/89	JD	14:22 UTC until 22:34 UTC
07/09/89	JD	20:46 UTC until 13:42 UTC on 07/10/89

de DB2OS 01May89: *** AO-10 TRANSPONDER SCHEDULE ***
01May89 to 13Jul89

Mode-B : from MA 025 to MA 225
OFF : from MA 226 to MA 024

O S C A R - 1 3

Date	: 14Jun89 until 16Aug89	! 16Aug89 until 16Nov89
BLON/BLAT	: 178.3/2	! 210/0
Mode-B	: MA 000 to MA 110	! MA 003 to MA 160
Mode-JL	: MA 110 to MA 145	! MA 160 to MA 200
Mode-B	: MA 145 to MA 255	! MA 200 to MA 240
OFF	: %	! MA 240 to MA 003
Mode-S	: MA 150 to MA 160	! MA 210 to MA 222

Transponders will be in operation during the whole orbit from June 14 until August 16 due to excellent sun angles and power budgets. However, no perigee operations will occur between August and November due to perigee solar eclipses! The 70cm and 2M omni-directional antennas will be used from MA 230 until MA 30.

The ZRO Memorial Technical Achievement Award Program, or just "ZRO Test" will be reactivated in July. The following schedule of Mode "B" ZRO tests with a was chosen for convenient operating times and favorable "squint" angles. The frequency for the "ZRO Test" will be a downlink frequency of 145.840 MHz. AO-13 users who don't wish to participate in the ZRO Test are asked to avoid operating on or near that frequency during these ZRO Test times. Please post the following list of times in your ham shack for the ZRO Tests so that you will have them handy for quick reference:

Saturday	July 8, 1989	at 04:50 UTC
Sunday	July 16, 1989	at 07:20 UTC
Saturday	July 22, 1989	at 20:50 UTC
Saturday	July 29, 1989	at 04:20 UTC
Saturday	August 12, 1989	at 20:20 UTC

Any changes will be announced as soon as possible via the AMSAT HF and AO-13 Operations Nets. ZRO brochures are available from WA5ZIB, Andy MacAllister, AMSAT V.P. of User Operations, 14714 Knightsway Drive, Houston, TX 77083 for an S.A.S.E. with one unit of postage. The brochure characterizes test procedures, means for obtaining certificates, and gives some historical background about the program. All listener reports with date of test and numbers copied should be sent to WA5ZIB at the address above. A report will be returned verifying the level of accurate reception.

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